

## EM Quiz

1. 0.17T

2. 45N West

3 a. 2.0A b) 0.28g

4.  $= 2.0 \times 10^{-4}$  Nm counterclockwise

5a.  $\frac{1}{2} mv^2 = Ve$

b. No, F perpendicular to v

c. No work = no change to  $E_k$

d. Circular

e.  $e/m = 2V/B^2 R^2$

6 a.  $7.1 \times 10^5$  m/s

b. 0.0093m

7.  $3.2 \times 10^4$  N/C

8. 19 degrees